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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/827,465	04/19/2004	Terry L. Turner	0275S-510COB	2992
27572	7590 03/22/2006		EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			CHUKWURAH, NATHANIEL C	
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER
2200M 1222 M225, 1M 10500		•	3721	
			DATE MAILED: 03/22/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/827,465	TURNER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Nathaniel C. Chukwurah	3721					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 10 Ja	Responsive to communication(s) filed on 10 January 2006.						
	This action is FINAL . 2b)⊠ This action is non-final.						
·=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 23-38 is/are pending in the application	Claim(s) <u>23-38</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>23-38</u> is/are rejected.							
7) Claim(s) is/are objected to.	_						
·	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>19 April 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119		, 1511611 61 1611111 1 6 1621					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
AMk							
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/10/2006 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 23-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mooty et al. (US 6,656,626) in view of Buchholz et al. (US 6,357,533).

With regard to claim 23, the reference of Mooty et al. discloses a power tool housing (102) having a mechanism for ejecting a battery pack (108), comprising: the housing including motor portion (103) and a handle portion (104) extending away from the electric motor portion and a base portion (106) at a distal end of the handle portion away from the motor portion to form a terminus of the power tool housing (102), a frame (115 mounting surface) in the base portion (106); a cavity (114 opening) in the frame for receiving a battery pack (108) at the distal

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end of the handle portion (104); a member (116, 119) for receiving a member (152,155) on the battery pack (108) to couple the battery pack with the power tool (100); a biasing member (125, 130) in the cavity (114), the biasing member (125, 130) for ejecting (releasable) the battery pack (108) from the receiving member (116, 119); and the battery pack (108) received in the receiving member (116, 119) so that the battery pack is in contact with the biasing member (125, 130).

The reference of Mooty et al. discloses the claimed subject matter but lacks the specific teaching of the battery pack secured on the frame, and in contact with the biasing member in a compressed condition. The reference of Buchholz et al. teaches the claimed feature as shown in Figures 6 and 10 wherein the battery pack (50) is secured and in contact with the biasing member (38, 39) in compressed condition, further Figure 10 shows a battery pack (50) ejected and released from the frame (2). In view of the teaching of the reference of Buchholz et al., it would have been obvious to one skilled in the art at the time of the invention to modify the battery pack receiving member of Mooty et al. such that the secured battery pack compresses the biasing member in order to more effectively detach of the battery pack from the frame.

With regard to claim 24, the power tool housing of Mooty et al., includes the cavity (114 opening) defined by a pair of opposing side walls and an end wall adjoining the opposing side walls as shown in Figures 7A and 7B.

With regard to claim 25, the receiving member (114 opening) of power tool housing of Mooty et al. includes a pair of extending and opposing rails on each side wall as shown in Figure 6.

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With regard to claim 26, the power tool housing of Mooty et al. includes channels formed adjacent the side walls and between the rails and frame as shown in Figure 6, for receiving mating rails (152, 155) on the battery pack (108).

With regard to claim 27, the power tool housing Mooty et al. includes at least one helical spring (125).

With regard to claim 28, the modified power tool housing of Mooty et al. includes the biasing member extending from an end wall of the frame as disclosed in the reference of Buchholz et al. (Fig. 10).

With regard to claim 29, the reference of Mooty et al. discloses a power tool (100), comprising: a battery pack (108); a housing (102), the housing (102) including a motor portion (103), a handle portion (104) adjacent the motor portion (103) and extending away from the motor portion and a base portion (106) at a distal end of the handle portion (104) away from the motor portion (103) forming a terminus of the housing (102), a motor (electric motor) in the housing (102), an output (105) coupled with the motor (electric motor); an activation member (107) for activating the motor (electric motor); a mechanism (securement) on base portion (106) of the housing (102) for receiving a battery pack (108) at the distal end of the handle portion (104) including: a frame (115 mounting surface); a cavity (114 opening) in the frame (115) for receiving a battery pack (108), a member (116, 119) for receiving a member (152,155) on the battery pack (108) to couple the battery pack with the housing (102); a biasing member (125, 130) in the cavity (114 opening), the biasing member (125, 130) for ejecting the battery pack (108) from the housing (102), and the battery pack (108) received in the receiving member (116,

119) so that the battery pack (108) is in contact with the biasing member (125, 130) such that the battery pack (108) is secured on the housing (102).

The reference of Mooty et al. discloses the claimed subject matter but lacks the specific teaching of the battery pack secured on the frame, and in contact with the biasing member in a compressed condition. The reference of Buchholz et al. teaches the claimed feature as shown in Figures 6 and 10 wherein the battery pack (50) is secured and in contact with the biasing member (38, 39) in compressed condition, further Figure 10 shows a battery pack (50) ejected and released from the frame (2). In view of the teaching of the reference of Buchholz et al., it would have been obvious to one skilled in the art at the time of the invention to modify the battery pack receiving member of Mooty et al. such that the secured battery pack compresses the biasing member in order to more effectively detach of the battery pack from the frame.

With regard to claim 30, the power tool (100) of Mooty et al., includes the cavity (114 opening) defined by a pair of opposing side walls and an end wall adjoining the opposing side walls as shown in Figures 7A and 7B.

With regard to claim 31, the receiving member (114 opening) of the power tool of Mooty et al. includes a pair of extending and opposing rails on each side wall as shown in Figure 6.

With regard to claim 32, the power tool of Mooty et al. includes channels formed adjacent the side walls and between the rails and frame as shown I Figure 6, for receiving mating rails (152, 155) on the battery pack (108).

With regard to claim 33, the power tool of Mooty et al. includes at least one helical spring (125).

With regard to claim 34, the modified power tool of Mooty et al. includes the biasing member extending from an end wall of the frame as disclosed in the reference of Buchholz et al. (Fig. 10).

With regard to claim 35, the battery pack of the power tool of Mooty et al. includes a pair of rails (152, 155) mating in the channels as shown in Figure 6.

With regard to claim 36, the battery pack (108) rails of the power tool of Mooty et al. includes an upper portion (154 Fig.11), lower portion (158 Fig. 11) and a channel as shown in Figure 11 between the upper and lower portions.

With regard to claim 37, the modified power tool of Mooty et al. includes the at least one helical spring which partially ejects the battery pack as shown in the reference of Buchholz et al. (Fig. 10).

With regard to claim 38, the power tool of Mooty et al. includes as shown in Figures 13A, 13B and 13C, wherein the battery rails slide in the channels and the frame rails suspend the battery pack from the tool housing.

Response to Arguments

Applicant's arguments with respect to claims 23-38 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Refer to attachment for notice of references cited and recommended for consideration based on their disclosure of limitations of the claimed invention.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathaniel C. Chukwurah whose telephone number is (571) 272-4457. The examiner can normally be reached on M-F 6:00AM-2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on (571) 272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NC

March 16, 2006.

Rinaldi I. Rada

Supervisory Patent Examiner

Group 3700

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